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SQUIRE, SANDERS & DEMPSEY L.L.P			VIG, NARESH	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Analicant/s\			
	Application No.	Applicant(s)			
Opering Antion Comments	09/814,423	YAMAMOTO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Naresh Vig	3629			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS, cause the application to become ABANI	y be timely filed 0) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 23 A	uaust 2004.				
	action is non-final.				
3) Since this application is in condition for allowar		s, prosecution as to the merits is			
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application					
4a) Of the above claim(s) is/are withdraw					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-19</u> is/are rejected.		j			
7) Claim(s) is/are objected to.		1			
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10) ☐ The drawing(s) filed on is/are: a) ☐ acc		the Examiner.			
Applicant may not request that any objection to the	•				
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Appl rity documents have been red u (PCT Rule 17.2(a)).	lication No ceived in this National Stage			
	2. 2.2 22. 2.00 35000 100100				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Sum				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 		lail Date mal Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:	man atom repriorition (i 10-132)			

DETAILED ACTION

This is in reference to response received on August 23, 2004 to the office action mailed on 4/21/2004. There are 19 claims, claims 1 – 19 pending for examination.

Response to Arguments

Applicant's arguments with respect to claims 1 - 19 have been considered but are moot in view of the new ground(s) of rejection because applicants arguments are for the amended claims presented to the office on August 23, 2004.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically teachd or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1 – 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lumelsky et al. US Patent 6,516,350 in view of an article Two Thumbs Up hereinafter known as <u>Coyote</u> and Stumm US Patent 5,768,528 and further in view of Stumm US Patent 5,768,528.

Regarding claim 1, Lumelsky teaches managing storage access (distributed system for the management of distributed resources interconnected by a computer network and comprised of a plurality of limited supply resources (such as those associated with multimedia content servers, e.g., bandwidth, CPU, storage, etc.,)) [abstract]. Lumelsky teaches:

a disk system;

a disk system manager, operative to manage information storage to and retrieval from said disk system [Fig. 6] and

a storage access service system operative to grant authorization to access said disk system [Fig. 6].

Lumelsky does not teach time based component (for billing purpose). However, Lumelsky teaches to have per-flow policies such as policy for service delivery, including availability, quality, interactivity level, etc. [col. 9, lines 61 – 63]. Official notice it taken time base component have been used to generate billing. For example, telephone calls (services used by the user for accessing telephone carrier's services) vary in prices based upon the time they place the call. Coyote teaches that SprintPCS offer calling plans based upon time of user. Therefore, it would have been obvious to one of ordinary

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skill in the art at the time the invention was made that one of ordinary skill in the art to modify Lumelsky as taught by Coyote [page 1] and implement billing and pricing based upon time to control the peak demand during the normal business hours.

Lumelsky in view of Coyote does not teach time component (for scheduled access). However, Stumm teaches system and method for operating a server system adapted to provide information files to a plurality of subscribers over communications network. Stumm teaches that each publisher is allowed to control the times which a subscriber is scheduled to access server system 20.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lumelsky in view of Coyote as taught by Stumm to secure the system resources.

Regarding claim 2, Lumelsky in view of Coyote and Stumm teaches time component further comprises time zone information, and wherein said storage access service system determines charges for user access service based upon said time component and access time.

Regarding claim 3, Lumelsky in view of Coyote and Stumm teaches said storage access service system determines charges for user access based upon a history of accesses (Lumelsky teaches to have billing capability).

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Regarding claim 4, Lumelsky in view of Coyote and Stumm teaches storage access service system determines charges by comparing said history of accesses to a billing rate schedule and thereupon computing a cost of access by summing a cost for each access according to said billing rate schedule (Lumelsky teaches to have policies and billing capability).

Regarding claim 5, Lumelsky in view of Coyote and Stumm teaches billing rate schedule is determined from a service level agreement (SLA) (Coyote teaches billing rates determined from SLA, e.g. terms and conditions of the contract).

Regarding claim 6, Lumelsky in view of Coyote and Stumm teaches users agree to access said at least one storage unit during a preset schedule (terms and condition of contract for using product or service), and wherein said storage access service system determines charges for user access service based upon preset schedule (Lumelsky teaches to have policies and billing capabilities, Coyote teaches plurality of plans for access to cellular phone (product) services).

Regarding claims 7, Lumelsky in view of Coyote and Stumm teaches storage access service system determines charges for user access said preset schedule to a billing rate schedule and thereupon computing a cost of said preset schedule (Lumelsky teaches to have policies and billing capabilities [col. 9, lines 61 – 63]).

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Regarding claim 8, Lumelsky in view of Coyote and Stumm teaches billing rate schedule is determined from a service level agreement (SLA). (Lumelsky teaches to have policies and billing capabilities [col. 9, lines 61 – 63], Coyote teaches SLA).

Regarding claim 9, Lumelsky in view of Coyote and Stumm teaches storage access service system determines charges by comparing said preset schedule to a billing rate schedule to determine an applicable billing rate and thereupon computing a cost of said preset schedule in a billing cycle (Lumelsky teaches to have policies and billing capabilities [col. 9, lines 61 – 63], Coyote teaches SLA).

Regarding claim 10, Lumelsky in view of Coyote and Stumm teaches plurality of billing rate schedule is determined from a service level agreement (SLA). (Lumelsky teaches to have policies and billing capabilities [col. 9, lines 61 – 63], Coyote teaches SLA).

Regarding claim 11, Lumelsky teaches system and method for managing access to storage resources, comprising:

Lumelsky does not teach system having plurality of tables. However, Coyote teaches service provider having plurality of rate plans (plurality of tables).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lumelsky as taught by Coyote to cater to the needs of clients.

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Lumelsky in view of Coyote teaches:

storing user information including an identity of a user; an identity of a resource, a time zone, and at least one of billing rate for accessing said resource in a first table of the plurality of tables;

receiving a computer-based request to access said resource from a user;
granting access to said resource based upon said identity of said user, said
identity of said resource, and said time zone using the first table (security) [Lumelsky
Fig. 6];

storing access information including said identity of said user, said identity of said resources, and said time zone in a second table of said plurality of tables (Lumelsky teaches billing capability); and

determining charges for accessing said resource based upon said identity of said user, said identity of said resource, and said at least one billing rate using the first table and the second table (Lumelsky teaches billing capability, Coyote teaches SLA).

Lumelsky in view of Coyote does not teach zone (for scheduled access).

However, Stumm teaches system and method for operating a server system adapted to provide information files to a plurality of subscribers over communications network.

Stumm teaches that each publisher is allowed to control the times which a subscriber is scheduled to access server system 20.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lumelsky in view of Coyote as taught by Stumm to secure the system resources.

selected from said history of accesses;

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Regarding claim 12, Lumelsky in view of Coyote and Stumm teaches logging individual instances of access to said resource into a history of accesses in said second table (logging individual instances of access to said resource into a history of accesses) [Lumelsky, col. 4, line 67].

Regarding claims 13 – 14, Lumelsky in view of Coyote and Stumm teaches policies and billing capabilities. Lumelsky does not teaches how the bill is generated. However, Official notice it taken that it would have been obvious to one of ordinary skill in the art at the time the invention was made that bills for usage is generated by determining time of usage (usage time for each individual instance of access

unit rate to be charged to use the system at that time (billing rate corresponding to said usage time from among said at least one of a plurality of billing rates; and

calculating the amount to be charged to the user (computing a cost by summing a cost for each individual instance of access selected from said history of accesses, said cost computed by multiplying said usage time by said billing rate corresponding to said usage time).

For example, monthly usage bill from the telephone service provider. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to Lumelsky billing has necessary steps to generate the bill for customers for invoice them for the money they owe the service provider.

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Lumelsky does not teach time zone. However, Coyote teaches that Sprint gives roaming capability to their users (users in different time zones). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lumelsky as taught by Coyote to allow the customers to access system form plurality locations and pay according to the agreement.

Regarding claim 15, Lumelsky in view of Coyote and Stumm teaches user agrees to access said resource at a time period in accordance with a preset schedule; and wherein said granting access to said resource based upon said identity of said user, said identity of said resource, and said time zone comprises:

granting said user access to said resource within said time period in accordance with said preset schedule (Coyote teaches SLA, Stumm teaches scheduled access)

Regarding claims 16 – 17, Lumelsky in view of Coyote and Stumm does not teaches how the bill is generated. However, Official notice it taken that it would have been obvious to one of ordinary skill in the art at the time the invention was made that bills for usage is generated by

determining time of usage (usage time for each individual instance of access selected from said history of accesses;

unit rate to be charged to use the system at that time (billing rate corresponding to said usage time from among said at least one of a plurality of billing rates; and

calculating the amount to be charged to the user (computing a cost by summing a cost for each individual instance of access selected from said history of accesses, said cost computed by multiplying said usage time by said billing rate corresponding to said usage time).

For example, monthly usage bill from the telephone service provider. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to Lumelsky billing has necessary steps to generate the bill for customers for invoice them for the money they owe the service provider.

Regarding claim 18, Lumeslky teaches method for charging users for storage access in a disk subsystem (Billing capability). Lumelsky does not teach system having plurality of tables. However, Coyote teaches service provider having plurality of rate plans (plurality of tables).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lumelsky as taught by Coyote to cater to the needs of clients.

Lumelsky in view of Coyote does not teach determining based upon a time zone of a location of a user at least one of a plurality of permitted access times. However, Stumm teaches system and method for operating a server system adapted to provide information files to a plurality of subscribers over communications network. Stumm teaches that each publisher is allowed to control the times which a subscriber is scheduled to access server system 20.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lumelsky in view of Coyote as taught by Stumm to secure the system resources.

Lumelsky in view of Coyote and Stumm teaches:

determining based upon a time zone of a location of a user at least one of a plurality of permitted access times, and at least one of a plurality of access rates, said access rates corresponding to said permitted access times (e.g. cell phone billing capability for plurality of time zones like Eastern, Central, Mountain and Pacific time zones for correct billing rates in 48 US States);

storing said at least one of a plurality of permitted access times, and said at least one of a plurality of access rates, said access rates corresponding to said permitted access times in a first table of the plurality of tables (Lumelsky teaches billing capability, Coyote teaches SLA, Stumm teaches scheduled time access);

receiving a computer-based request to access said resource from a user;
using the first table to enable the user to access the disk subsystem only during
the at least one of a plurality of permitted access times (Stumm teaches scheduled time
access);

automatically tracking time periods when said user accesses storage in said disk system and storing said access in a second table (Lumelsky teaches billing capability);

using said first table and said second table to determine for said time periods charges to said user for access, said charge based upon said time zone of a location of said user, said at least one of a plurality of permitted access times, and said at least one

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of a plurality of access rates (Lumelsky teaches billing capability, Coyote teaches SLA, Stumm teaches scheduled time access); and

determining a total cost from said charges to said users for access (Lumelsky teaches billing capability).

Regarding claim 19, Lumelsky teaches charging users for storage access in a disk subsystem (policies and billing capability). Lumelsky does not teach system having plurality of tables. However, Coyote teaches service provider having plurality of rate plans (plurality of tables).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lumelsky as taught by Coyote to cater to the needs of clients.

Lumelsky in view of Coyote does not teach determining based upon a time zone of a location of a user at least one of a plurality of permitted access times. However, Stumm teaches system and method for operating a server system adapted to provide information files to a plurality of subscribers over communications network. Stumm teaches that each publisher is allowed to control the times which a subscriber is scheduled to access server system.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lumelsky in view of Coyote as taught by Stumm to secure the system resources.

Lumelsky in view of Coyote and Stumm teaches:

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determining based upon a time zone of a location of a user at least one of a plurality of permitted access times, and at least one of a plurality of access rates, said access rates corresponding to said permitted access times (e.g. cell phone billing capability for plurality of time zones like Eastern, Central, Mountain and Pacific time zones for correct billing rates in 48 US States);

storing said at least one of a plurality of permitted access times, and said at least one of a plurality of access rates, said access rates corresponding to said permitted access times in a first table of the plurality of tables (Lumelsky teaches billing capability, Coyote teaches SLA, Stumm teaches scheduled time access);

receiving a computer-based request to access said resource from a user;
using the first table to enable the user to access the disk subsystem only during
the at least one of a plurality of permitted access times (Stumm teaches scheduled time
access);

automatically tracking time periods when said user accesses storage in said disk system and storing said access in a second table (Lumelsky teaches billing capability);

using said first table and said second table to determine for said time periods charges to said user for access, said charge based upon said time zone of a location of said user, said at least one of a plurality of permitted access times, and said at least one of a plurality of access rates (Lumelsky teaches billing capability, Coyote teaches SLA, Stumm teaches scheduled time access); and

determining a total cost from said charges to said users for access (Lumelsky teaches billing capability).

Conclusion

Applicant is required under 37 CRF '1.111 (c) to consider the references fully when responding to this office action.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naresh Vig whose telephone number is 703.305.3372. The examiner can normally be reached on M-F 7:30 - 5:00 (Alt Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Weiss can be reached on 703.308.2702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Naresh Vig

JOHN G. WEISS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

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